

Appl. No. 09/756,738
Amdt. dated March 29, 2005
Reply to Office action of January 26, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

5 Listing of Claims:

Claim 1 (Currently Amended): A method for acknowledging a wireless data discarding request transmitted by a first station to a second station for requesting the second station to discard at least a layer 2 service data unit (SDU), the method comprising:
generating a layer 2 data discard acknowledgment protocol data unit (PDU),
10 the layer 2 data discard acknowledgment PDU comprising a first field that ensures the first station to determine the number of layer 2 SDUs discarded by the second station; and
transmitting the layer 2 data discard acknowledgment PDU to the first station[.];
15 wherein the first field indicates the number of layer 2 PDUs discarded by the second station when discarding the layer 2 SDUs.

Claim 2 (Original): A method according to claim 1 wherein each layer 2 SDU to be discarded has a terminating layer 2 PDU that holds a terminating end of the layer 2
20 SDU, and the first field indicates the number of terminating layer 2 PDUs discarded by the second station.

Claims 3-4 (Canceled)

25 Claim 5 (Original): A method according to claim 1 wherein the first field comprises a bitmap that indicates a discard state for each layer 2 SDU to be discarded.

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5 Claim 6 (Original): A method according to claim 1 wherein the layer 2 data discard acknowledgment PDU further comprises a second field for indicating a starting sequence number for an updated receiving window of the second station, and a third field for indicating discarding of layer 2 SDU data within a PDU having the starting sequence number.

10 Claim 7 (Original): A method according to claim 1 wherein the first station comprises a layer 2 interface and a layer 3 interface, and the first field in the layer 2 acknowledgment PDU enables the layer 2 interface to inform the layer 3 interface of the number of layer 2 SDUs discarded by the second station.

Claim 8 (Currently Amended): A wireless communications system comprising:
15 a first station capable of transmitting a data discarding request, the data discarding request being used to request discarding of at least a layer 2 service data unit (SDU); and
a second station capable of receiving the data discarding request and sending a layer 2 data discard acknowledgment protocol data unit (PDU), the layer 2 data discard acknowledgment PDU comprising a first field that ensures the first
20 station to determine the number of layer 2 SDUs discarded by the second station[.];
wherein the first field indicates the number of layer 2 PDUs discarded by the second station when discarding the layer 2 SDUs.

25 Claim 9 (Original): A wireless communications system according to claim 8 wherein each layer 2 SDU to be discarded has a terminating layer 2 PDU that holds a terminating end of the layer 2 SDU, and the first field indicates the number of terminating layer 2 PDUs discarded by the second station.

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Claims 10-11 (Canceled)

Claim 12 (Original): A wireless communications system according to claim 8 wherein the
 5 first field comprises a bitmap that indicates a discard state for each layer 2 SDU to be discarded.

Claim 13 (Original): A wireless communications system according to claim 8 wherein the
 10 layer 2 data discard acknowledgement PDU further comprises a second field for indicating a starting sequence number for an updated receiving window of the second station, and a third field for indicating discarding of layer 2 SDU data within a layer 2 PDU having the starting sequence number.

Claim 14 (Original): A wireless communications system according to claim 8 wherein the
 15 first station comprises a layer 2 interface and a layer 3 interface, and the first field in the layer 2 data discard acknowledgement PDU enables the layer 2 interface to inform the layer 3 interface of the number of layer 2 SDUs discarded by the second station.

Claim 15 (Currently Amended): A method for acknowledging a wireless data discarding
 20 request transmitted by a first station to a second station for requesting the second station to discard at least a layer 2 service data unit (SDU), the method comprising:
 generating a layer 2 data discard acknowledgement protocol data unit (PDU),
 the layer 2 data discard acknowledgement PDU comprising a first field that
 ensures the first station to determine the number of layer 2 SDUs discarded
 25 by the second station; and
 transmitting the layer 2 data discard acknowledgement PDU to the first station[.];
 wherein each layer 2 SDU to be discarded has a terminating layer 2 PDU that holds a terminating end of the layer 2 SDU, and the first field indicates the

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number of terminating layer 2 PDUs discarded by the second station.

5 Claim 16 (Previously Presented): A method according to claim 15 wherein the first field comprises a bitmap that indicates a discard state for each layer 2 SDU to be discarded.

10 Claim 17 (Currently Amended): A wireless communications system comprising:
a first station capable of transmitting a data discarding request, the data discarding request being used to request discarding of at least a layer 2 service data unit (SDU); and
a second station capable of receiving the data discarding request and sending a layer 2 data discard acknowledgment protocol data unit (PDU), the layer 2 data discard acknowledgment PDU comprising a first field that ensures the first
15 station to determine the number of layer 2 SDUs discarded by the second station[[.]];
wherein each layer 2 SDU to be discarded has a terminating layer 2 PDU that holds a terminating end of the layer 2 SDU, and the first field indicates the number of terminating layer 2 PDUs discarded by the second station.

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Claim 18 (Previously Presented): A wireless communications system according to claim 17 wherein the first field comprises a bitmap that indicates a discard state for each layer 2 SDU to be discarded.

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